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# NOTICE OF ALLOWANCE AND FEE(S) DUE

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08/26/2009

MCANDREWS HELD & MALLOY, LTD 500 WEST MADISON STREET SUITE 3400 CHICAGO, IL 60661

EXAMINER				
WEI, ZHENG				
ART UNIT	PAPER NUMBER			
2102				

DATE MAILED: 08/26/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/761.735	01/20/2004	James P. Gustafson	14327US02	3663

TITLE OF INVENTION: UPDATE SYSTEM CAPABLE OF UPDATING SOFTWARE ACROSS MULTIPLE FLASH CHIPS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	11/27/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for

maintenance fee notifications. Note: A certificate of mailing can only be used for domestic mailings of the CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 23446 7590 08/26/2009 Certificate of Mailing or Transmission MCANDREWS HELD & MALLOY, LTD I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. **500 WEST MADISON STREET SUITE 3400** CHICAGO, IL 60661 (Depositor's name (Signature (Date APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/761,735 01/20/2004 James P. Gustafson 14327US02 3663 TITLE OF INVENTION: UPDATE SYSTEM CAPABLE OF UPDATING SOFTWARE ACROSS MULTIPLE FLASH CHIPS APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional YES \$755 \$300 \$0 \$1055 11/27/2009 **EXAMINER** ART UNIT CLASS-SUBCLASS WEI, ZHENG 717-172000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. or agents OR, alternatively, (2) the name of a single firm (having as a member a ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) 4a. The following fee(s) are submitted: lssue Fee A check is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_\_ (enclose an extra copy of this fo Advance Order - # of Copies \_ (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ■ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Authorized Signature Date Typed or printed name Registration No. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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10/761,735	01/20/2004	James P. Gustafson	14327US02	3663
23446 75	90 08/26/2009		EXAM	INER
MCANDREWS HELD & MALLOY, LTD			WEI, Z	HENG
500 WEST MADISON STREET			ART UNIT	PAPER NUMBER
SUITE 3400 CHICAGO, IL 60661			2192 DATE MAILED: 08/26/200	9

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1070 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1070 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/761,735	GUSTAFSON ET AL.
Notice of Allowability	Examiner	Art Unit
	ZHENG WEI	2192
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this apportant or other appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due course. <b>THIS</b>
1. This communication is responsive to <u>06/22/2009</u> .		
2. X The allowed claim(s) is/are <u>1-52</u> .		
<ol> <li>Acknowledgment is made of a claim for foreign priority una)</li> <li>All b)</li> <li>Some* c)</li> <li>None of the:</li> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ol> * Certified copies not received: <ol> <li>Certified copies not received:</li> </ol>	been received. been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review ( PTO-	948) attached
1)  hereto or 2)  to Paper No./Mail Date		
<ul><li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li></ul>	s Amendment / Comment or in the C	Office action of
ldentifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT		
Attachment(s)	E Notice of Information	totant Annlication
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Dotice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	<ul><li>5. ☐ Notice of Informal P</li><li>6. ☐ Interview Summary</li></ul>	
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Dat 7. ⊠ Examiner's Amendr	te
Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9.	
	/Tuan Q. Dam/ Supervisory Patent Exa	aminer, Art Unit 2192

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### **DETAILED ACTION**

#### Remarks

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 06/22/2009 has been entered.
- 2. This office action is in response to the amendment filed on 06/22/2009.
- 3. Claims 1, 6, 28 and 49 have been amended.
- 4. Claims 1-52 remain pending and have been examined.

### **EXAMINER'S AMENDMENT**

- 5. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 6. Authorization for this examiner's amendment was given in a telephone interview with Mr. Kevin E. Borg, (Reg. No. 51,486) on August 20, 2009 to obviate any potential 35 U.S.C. § 112 issues, and to put the claims in condition for allowance. A proposed amendment has been received on 08/21/2009 and adopted by Examiner. See pages 5-15 attached hereto.

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7. Claims 1, 2, 6, 24-28 and 45-49 have been amended and now being allowed after Examiner's amendment.

### Allowable Subject Matter

- 8. Claims 1-52 are allowed. As the Applicants pointed out under REMAKRS section, page number 14-18, neither O'Neil nor Woodward discloses identifying, from a group corresponding to memory devices to which access has been enabled, updating software corresponding to at least the associated type (access type) of the at least one of the plurality of memory devices and wherein the non-volatile memory comprises software functions enabling access to and manipulation of the first memory device and the second memory device, first updating software corresponding to the first associated type (access type), and second updating software corresponding to the second associated type (access type), and in as such manners as recited in the independent claims 1, 6, 28 and 49, thus each of the dependent claims are allowable for at least the same reasons.
- 9. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zheng Wei whose telephone number is (571) 270-1059 and Fax number is (571) 270-02059. The examiner can normally be reached on Monday-Thursday 8:00-15:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam can be reached on (571) 272-3695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Z. W./ Examiner, Art Unit 2192 /Tuan Q. Dam/ Supervisory Patent Examiner, Art Unit 2192

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## **Listing of Claims:**

1. (Currently amended) A method of updating non-volatile memory in an electronic device via a communication network, the non-volatile memory comprising a plurality of memory devices comprising a first memory device having a first associated access type and second memory device having a second associated access type, wherein the first associated access type and second associated access type are not the same, the method comprising:

receiving update information via the communication network;

selecting at least one of the plurality of memory devices to be updated using the update information;

identifying, from a group corresponding to memory devices to which access has been enabled, updating software corresponding to at least the associated access type of the at least one of the plurality of memory devices; and

updating the at least one of the plurality of memory devices using the identified updating software and the update information;

wherein the non-volatile memory comprises software functions enabling access to and manipulation of the first memory device and the second memory device, first updating software corresponding to the first associated <u>access</u> type, and second updating software corresponding to the second associated <u>access</u> type.

- 2. (Currently amended) The method according to claim 1, further comprising determining the associated <u>access</u> type of the at least one of the plurality of memory devices to be updated.
- 3. (Original) The method according to claim 1, wherein the communication network is a wireless network.
- 4. (Original) The method according to claim 1, wherein the communication network is a public network.

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5. (Previously presented) The method according to claim 1, further comprising verifying the updating of the one of the at least one memory device using one of a CRC (Cyclic Redundancy Check), a checksum, a hash code, and a digital signature.

6. (Currently amended) A method of updating non-volatile memory in an electronic device via a communication network, the non-volatile memory comprising a plurality of memory devices comprising a first memory device having a first associated access type and a second memory device having a second associated access type, wherein the first associated access type and second associated access type are not the same, the method comprising:

communicating update information in an update package via the communication network from a management server to the electronic device; and

employing an update agent to interact with a memory library and the plurality of memory devices in non-volatile memory in the electronic device, and to identify, from a group corresponding to memory devices to which access has been enabled, updating software corresponding to at least an associated <u>access</u> type of at least one of the plurality of memory devices;

wherein the non-volatile memory comprises software functions enabling access to and manipulation of the first memory device and the second memory device, first updating software corresponding to the first associated <u>access</u> type, and second updating software corresponding to the second associated <u>access</u> type.

7. (Previously presented) The method according to claim 6, further comprising:

employing a memory manager to access contents stored in the plurality of memory devices, wherein the plurality of memory devices comprises a plurality of FLASH memory chips; and

employing the memory library to modify contents of at least one FLASH memory chip.

8. (Previously presented) The method according to claim 7, wherein the plurality of FLASH memory chips comprise FLASH memory chips fabricated by different

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manufacturers, and the plurality of FLASH memory chips comprise one of a same amount of memory size and a different amount of memory size.

9. (Original) The method according to claim 8, further comprising:

determining which of the plurality of FLASH memory chips correspond to a particular FLASH memory modification;

employing an appropriate FLASH memory chip function; and performing a corresponding FLASH memory modification.

- 10. (Original) The method according to claim 8, further comprising employing the memory library by the update agent to permit access to and manipulation of a plurality of FLASH memory chips fabricated by different manufacturers, and invoking appropriate functions stored in the memory library corresponding to the different manufacturers FLASH memory chips.
- 11. (Previously presented) The method according to claim 6, further comprising storing generic functions in the memory library which are employable by the update agent; and

modifying contents of the at least one of the plurality of memory devices without identifying actual details regarding a specific memory device, wherein the actual details may be selected from a group comprising memory device manufacturer, memory device type, memory size, memory model, and memory brand.

- 12. (Previously presented) The method according to claim 6, wherein the plurality of memory devices are adapted to be grouped together, paired together, or arranged serially in non volatile memory in the electronic device.
- 13. (Original) The method according to claim 6, further comprising creating a memory map of memory device architecture, the memory map containing information selected from a group comprising of a number of memory devices being employed by the electronic device, address ranges assigned to the memory devices, memory device

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operating mode, a map of data segments resident in the memory devices, and a map of code segments resident in the memory devices.

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- 14. (Previously presented) The method according to claim 6, wherein the electronic device comprises one of a mobile cellular phone handset, a personal digital assistant, a pager, an MP3 (Moving Pictures Experts Group Phase 1 Audio Layer 3) player, and a digital camera.
- 15. (Original) The method according to claim 6, further comprising employing an update package status and reference section by the update agent code to retrieve information regarding functions stored in a memory library code.
- 16. (Original) The method according to claim 15, wherein the update package status and reference section further comprises at least one of a status flag, starting address, authentication value, location of update package, and locations of a plurality of modification functions in non-volatile memory of the electronic device.
- 17. (Original) The method according to claim 6, wherein the update package comprises update information for at least one of firmware and software, version upgrades, instructions to add new services, and instructions to delete services employable in the electronic device.
- 18. (Original) The method according to claim 6, further comprising employing a boot initialization code to determine whether an update agent code is executed.
- 19. (Original) The method according to claim 18, wherein determining whether the update agent code is executed comprises evaluating status information resident in an update package status and reference section, and wherein if it is determined that the update agent code is to be executed, then the update agent code accesses an update package resident in the non-volatile memory of the electronic device by employing an address of the update package stored in the update package status and reference section.

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20. (Previously presented) The method according to claim 6, wherein the update agent is adapted to interact with a plurality of the plurality of memory devices as a single logical block of non-volatile memory without distinguishing between specific memory devices.

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- 21. (Original) The method according to claim 20, wherein the plurality of memory devices are arranged according to one of contiguously or non-contiguously in memory, and code and data resident in the memory devices are updateable by the update agent regardless of which memory device the code and data reside in.
- 22. (Original) The method according to claim 6, wherein the memory library is adapted to accommodate a plurality of different types of memory devices by being provided with drivers for the plurality of different types of memory devices during manufacture.
- 23. (Original) The method according to claim 6, wherein the update agent is adapted to accommodate a plurality of different types of memory devices by accessing the memory library and compiling the update agent anew with drivers for the plurality of different types of memory devices stored in the memory library during manufacture.
- 24. (Currently amended) The method according to claim 6, wherein the electronic device comprises at least one processor one or more processors, and wherein the at least one processor one or more processors may be associated with a specific memory device.
- 25. (Currently amended) The method according to claim [[24]] 6, wherein the at least one processor electronic device comprises a plurality of processors and each of the processors is associated with a specific memory device.
- 26. (Currently amended) The method according to claim [[24]] 6, wherein the at least one processor electronic device comprises a plurality of processors and the plurality of processors are adapted to share the plurality of memory devices.

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27. (Currently amended) The method according to claim [[24]] 6, wherein the at least one processor electronic device comprises a digital signal processor (DSP) adapted to execute DSP code retrieved from at least one memory device.

28. (Currently amended) A mobile services network adapted to update at least one electronic device, the network comprising:

a management server communicatively connectable to the at least one electronic device via a communication link, the management server adapted to transmit update information in an update package to the electronic device, and the electronic device comprising a plurality of memory devices comprising a first memory device having a first associated access type and a second memory device having a second associated access type, wherein the first associated access type and second associated access type are not the same, and an update agent employing a memory library to interact with the plurality of memory devices in non-volatile memory in the electronic device and to identify, from a group corresponding to memory devices to which access has been enabled, updating software corresponding to at least an associated access type of at least one of the plurality of memory devices.

- 29. (Previously presented) The network according to claim 28, further comprising:
- a memory manager adapted to be employed by the update agent to access contents stored in the plurality of memory devices; and
- a memory library adapted to support modifications of content in the plurality of memory devices.
- 30. (Previously presented) The network according to claim 28, wherein the plurality of memory devices comprise memory devices fabricated by different manufacturers, and the plurality of memory devices comprise one of a same amount of memory size and a different amount of memory size.

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31. (Original) The network according to claim 30, wherein the update agent is adapted to determine which of the plurality of memory devices correspond to a particular memory modification, and employ an appropriate memory device function available in the memory library to perform a corresponding memory modification.

- 32. (Original) The network according to claim 28, wherein the memory library is employable by the update agent to permit access to and manipulation of a plurality of memory devices fabricated by different manufacturers by invoking appropriate functions stored in the memory library which correspond to the different manufacturers memory devices.
- 33. (Previously presented) The network according to claim 28, wherein the memory library may store generic functions employable by the update agent to modify contents of the plurality of memory devices without identifying actual details regarding a specific memory device, the actual details may be selected from a group comprising memory manufacturer, memory type, memory size, memory model, and memory brand.
- 34. (Previously presented) The network according to claim 28, wherein the plurality of memory devices are adapted to be grouped together, paired together, or arranged serially.
- 35. (Original) The network according to claim 28, further comprising a memory map of memory device architecture, the memory map being adapted to contain information selected from a group comprising a number of memory devices being employed by the electronic device, address ranges assigned to the memory devices, memory device operating mode, a map of data segments resident in the memory devices.
- 36. (Previously presented) The network according to claim 28, wherein the electronic device comprises one of a mobile cellular phone handset, a personal digital assistant, a pager, an MP3 (Moving Pictures Experts Group Phase 1 Audio Layer 3) player, and a digital camera.

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37. (Original) The network according to claim 28, wherein the non-volatile memory further comprises an update package status and reference section employable by an update agent code to retrieve information regarding functions stored in a memory library code.

- 38. (Original) The network according to claim 28, wherein the update package comprises update information for at least one of firmware and software, version upgrades, instructions to add new services, and instructions to delete services employable in the electronic device.
- 39. (Original) The network according to claim 28, wherein the electronic device is adapted to employ a boot initialization code to determine whether an update agent code is executed, and determining whether the update agent code is executed comprises evaluation of status information resident in an update package status and reference section, wherein if it is determined that the update agent code is to be executed, then update agent code accesses an update package resident in the non-volatile memory by employing an address of the update package stored in the update package status and reference section.
- 40. (Original) The network according to claim 39, wherein the update package status and reference section further comprises at least one of a status flag, starting address, authentication value, location of update package, and locations of a plurality of modification functions in non-volatile memory of the electronic device.
- 41. (Previously presented) The network according to claim 28, wherein the update agent is adapted to interact with a plurality of the plurality of memory devices as a single logical block of non-volatile memory without distinguishing between specific memory devices.
- 42. (Previously presented) The network according to claim 41, wherein the plurality of memory devices may be arranged as one of contiguously or non-contiguously in memory, and code and data resident in the memory devices are

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updateable by the update agent regardless of which memory device the code and data reside in.

43. (Original) The network according to claim 28, wherein the memory library is adapted to accommodate a plurality of different types of memory devices by being provided with drivers for the plurality of different types of memory devices during manufacture.

44. (Original) The network according to claim 28, wherein the update agent is adapted to accommodate a plurality of different types of memory devices by accessing the memory library and compiling the update agent with drivers for the plurality of different types of memory devices stored in the memory library during manufacture.

45. (Currently amended) The network according to claim 28, wherein the electronic device comprises at least one processor one or more processors, and wherein the at least one processor one or more processors may be associated with a specific memory device.

- 46. (Currently amended) The network according to claim [[45]] <u>28</u>, wherein the at least one processor <u>electronic device</u> comprises a plurality of processors and each of the processors is associated with a specific memory device.
- 47. (Currently amended) The network according to claim [[46]] <u>28</u>, wherein the at least one processor electronic device comprises a plurality of processors and the plurality of processors are adapted to share the plurality of memory devices.
- 48. (Currently amended) The network according to claim [[46]] <u>28</u>, wherein the at least one processor electronic device comprises a digital signal processor (DSP) adapted to execute DSP code retrieved from at least one memory device.
  - 49. (Currently amended) A mobile handset comprising:

a plurality of flash memory chips comprising a first flash memory chip having a first associated <u>access</u> type and a second flash memory chip having a second associated <u>access</u> type, wherein the first associated <u>access</u> type and second associated <u>access</u> type are not the same; and

an update agent capable of identifying, from a group corresponding to memory devices to which access has been enabled, updating software corresponding to at least an associated <u>access</u> type of the at least one of the plurality of memory devices, and updating at least one of firmware and software resident in at least one of the plurality of flash memory chips using the identified updating software.

- 50. (Original) The mobile handset according to claim 49, wherein the update agent is adapted to determine information regarding a type of each of the plurality of flash memory chips at runtime, the mobile handset further comprises a plurality of flash drivers, wherein the mobile handset is adapted to employ an appropriate one of the plurality of flash drivers to update at least a portion of at least one of firmware and software resident in at least one of the plurality of flash memory chips.
- 51. (Original) The mobile handset according to claim 50, further comprising a plurality of processors, wherein each of the processors is adapted to manipulating a specific subset of the plurality of flash memory chips, and the plurality of processors are also adapted to employ the update agent to update at least one of firmware and software resident in at least one specific subset of flash memory chips.
  - 52. (Original) The mobile handset according to claim 49, further comprising:
- a first processor adapted to update at least one of firmware and software resident in at least one of the plurality of flash memory chips;

a second processor adapted to execute code resident in at least one of the plurality of flash memory chips, wherein the first processor is adapted to execute the update agent to update at least one of firmware and software resident in at least one of the plurality of

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flash memory chips, and the second processor is adapted to execute an update version of code resident in at least one of the plurality of flash memory chips.